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U. S. DEPARTMENT OF AGRICULTURE

Federal-State Cooperative
Snow Surveys and Water Supply Forecasts
for

Colorado River Drainage Basin

SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE
AND
COLORADO AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with the U. S. Forest Service, National Park Service, State Engineers of Colorado, Wyoming and New Mexico and other Federal, State and local organizations.

—AS OF—

MAY 1, 1955

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY
AND WATER SUPPLY FORECAST REPORTS:

Forecasts by U. S. Weather Bureau of total annual streamflow October-September, inclusive, at more than 300 gaging stations are issued monthly January through May in the publication WATER SUPPLY FORECASTS FOR THE WESTERN UNITED STATES.

Weather Bureau forecasts of runoff presented in that bulletin are computed from procedures based on mathematical analysis of the relation between precipitation and runoff.

The Weather Bureau bulletins may be secured by writing to:

Hydrologist in Charge
River Forecast Center
U. S. Weather Bureau
712 Federal Office Building
Kansas City 6, Missouri

For current information on local river and flood conditions, reference should be made to the appropriate River District Office listed below:

Meteorologist in Charge Weather Bureau Airport Station Albuquerque, N. Mex.	San Juan River and tributaries
Meteorologist in Charge Weather Bureau Airport Station 3000 Sky Harbor Blvd. Phoenix, Ariz.	Colorado River and tributaries from but not including the mouth of the San Juan River to the Arizona-Mexico border.
Meteorologist in Charge Weather Bureau Airport Station Box 517 Grand Junction, Colo.	Colorado River and tributaries above but not including, the mouth of the San Juan

Colorado River

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS AND WATER SUPPLY FORECASTS

for

COLORADO RIVER BASIN

Issued

May 9, 1955

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General Series Paper No. 610
Colorado Agricultural Experiment Station

WATER SUPPLY OUTLOOK
COLORADO RIVER DRAINAGE
May 1, 1955

Streamflow in western Colorado will be below the past ten-year average in 1955 but more than for the snow-melt season of 1954. Irrigated areas along the principal streams will have reasonably adequate water supplies. Shortages will occur on tributary streams where storage is not available. Soil moisture conditions in irrigated areas of western Colorado are fair to good. Reservoir storage is down slightly from average and a year ago. The contribution to the Colorado River from Wyoming will be about one-half of the past ten-year average. Lake Mead is at the lowest point since the time of original filling. Total storage will decline further during 1955.

In Arizona the water supply outlook is poor. The Salt River Valley has reasonably adequate storage for this year. Near record low runoff for the spring months has already occurred on all streams in Arizona. There is no storage in San Carlos on the Gila.

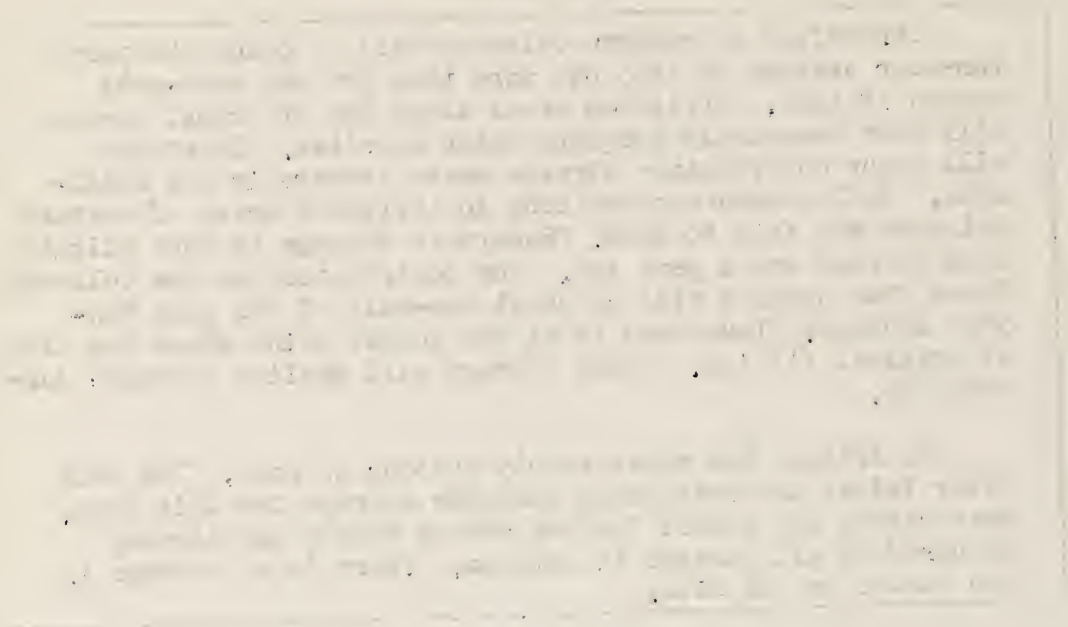
COLORADO RIVER AND TRIBUTARIES IN COLORADO

The water supply outlook for western Colorado streams declined substantially during April. Low elevation snow courses are bare and snow water contents at high elevation courses dropped from April 1 where increases in snow cover usually occur.

The flow of the Yampa and White Rivers in northwestern Colorado will be much higher than in 1954 but 10 to 20 percent less than average. Soil moisture conditions are relatively good in valley areas. Streamflow is near average for early May. For the Upper Colorado and Gunnison Rivers snow-melt season streamflow is expected to be well above last year but only 70 percent of normal. Soil moisture conditions along the Colorado are fair but on the Uncompahgre project on the Gunnison River the soil moisture conditions are good.

In 1955, streamflow on the San Juan and its major tributaries and the Dolores River will be short at slightly more than one-half of the past ten-year average. On these streams the outlook is also better than for 1954. Rainfall in valley areas has been near normal and soils in irrigated areas are reported to be in fair to good condition except where winds have removed surface soil moisture.

Unless the summer months are extremely dry, irrigation water supply should be reasonably adequate along the main streams. Water shortage should be expected on tributary streams serving the smaller irrigated areas, where no storage is available for use during the latter summer months.



In summary of the water supply outlook for western Colorado there will be more water available in 1955 than in 1954 but less than for the past ten-year average. Other factors affecting water supply and demand such as mountain and valley soil moisture, streamflow, and reservoir storage is somewhat more favorable than at this date a year ago.

Storage in Lake Mead is 11,270,000 acre-feet, down 4 million acre-feet, during the past year. This is the lowest point since the storage passed this point on its original filling. The low storage is a result of extremely low inflow last year. Inflow to Lake Mead for the April-September 1955 period is forecast at about 60 percent of normal. A similar drop in total storage is expected during the next year.

GREEN RIVER IN WYOMING

Mountain snowfall and valley precipitation has been deficient on the Green River in Wyoming. Summer flow of the Green River into Utah will be about one-half of normal in 1955. Range and soil moisture conditions are described as poor on this watershed.

COLORADO RIVER IN ARIZONA

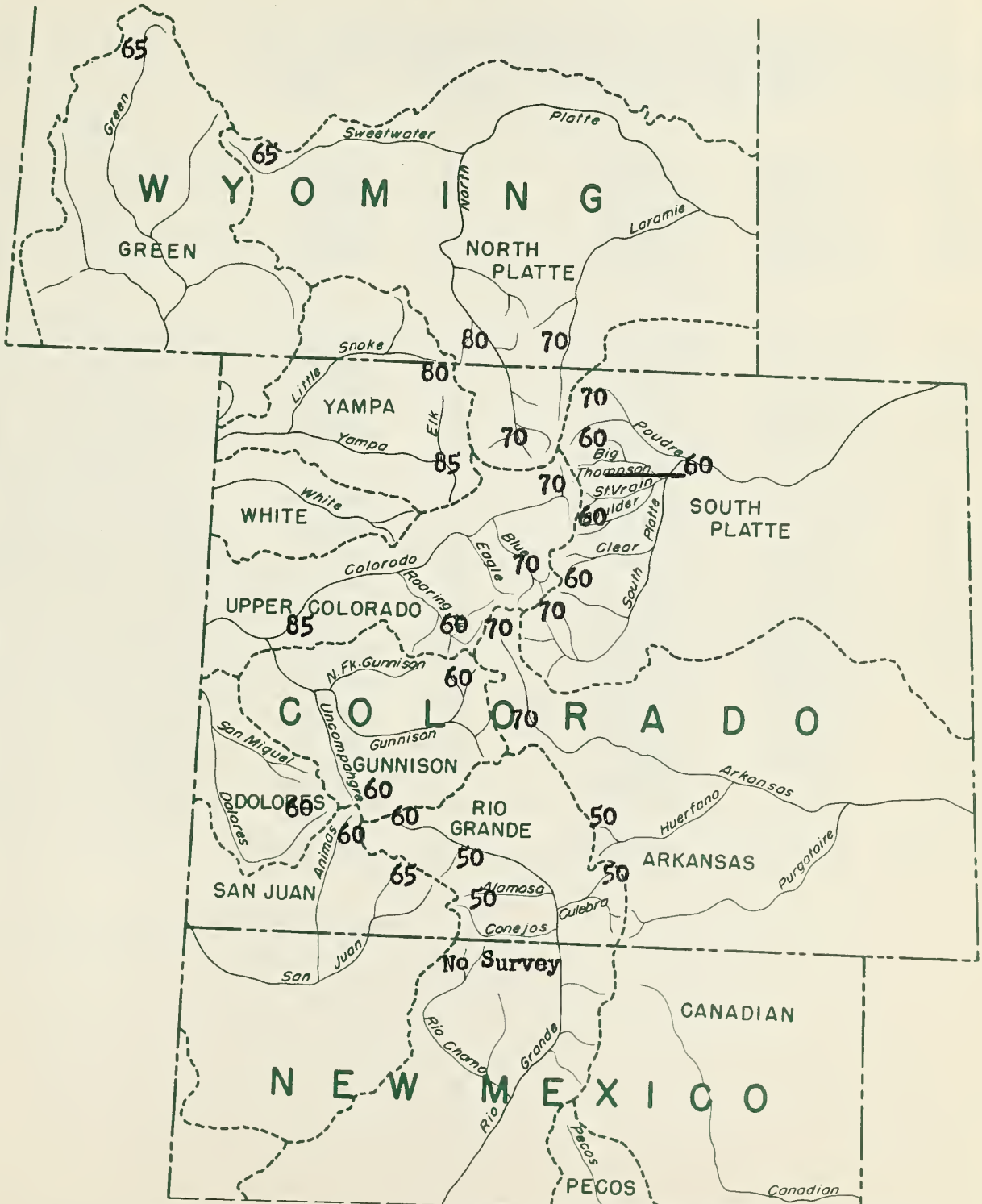
Arizona snow-melt season runoff has been less than for any year since 1904. Precipitation in the mountains was very deficient last summer and fall. Snowfall that did occur during the winter months was taken up by dry mountain soils without material increases in streamflow. The snow was gone as of April 1.

Storage in reservoirs of the Salt River project will be adequate to meet 1955 water requirements. There is no water stored in San Carlos with May 1 outflow only 17 cubic feet a record. The flow of the Salt River was 265, the Verde 159 and the Tonto 20 cubic feet a record. The Little Colorado River at Springerville is dry for the first time since 1904.

WATER CONTENT OF SNOW ON THE WATERSHEDS OF PLATTE, ARKANSAS, UPPER COLORADO AND RIO GRANDE BASINS BASED ON SNOW SURVEYS MADE APPROXIMATELY FIRST DAY OF MONTH

In Percent of Normal

May 1, 1955



Note: The figures above are for snow water content remaining on the watersheds as of May 1 and do not necessarily represent expected streamflow. See streamflow forecasts.

COLORADO RIVER DRAINAGE BASIN
STREAM FLOW FORECASTS, May 1, 1955

BASIN AND STREAM	April-Sept., Incl., Streamflow, Acre Feet				
	Forecast 1955	% of 10 year Average	Measured Runoff 1953	Measured Runoff 1952	10-yr. Avg. 1943-1952
GREEN					
Green at Linwood, Utah	750,000	50	957,000	1,659,000	1,490,000
Little Snake at Lily	290,000	75	232,000	689,000	387,000
Elk at Clark	190,000	86	164,000	258,000	224,000
Yampa at Steamboat Spgs	250,000	86	249,000	402,000	290,000
White at Meeker	325,000	95	313,000	487,000	344,000
COLORADO					
Colorado near Granby	185,000*	80	197,000*	313,000*	229,000*
Willow Creek near Granby	35,000*	79	32,000	71,000	44,000
Frazer at Granby	75,000	71	102,000	153,000	106,000
Blue above Green Mt. Res.	225,000	73	277,000	368,000	307,000
Colo. at Glenwood Spgs.	1,300,000*	81	1,413,000*	2,384,000*	1,611,000*
Roaring Fork at Glenwood Springs	600,000	71	678,000*	1,134,000*	842,000*
Plateau Cr. at Collbran	45,000	75	41,000	81,000	60,000
Uncompahgre at Colona	75,000	49	114,000	194,000	156,000
Surface Cr. near Cedaredge	12,000	67	11,000	25,000	18,000
Gunnison at Gr. Junction	900,000	61	953,000	2,317,000	1,482,000
San Juan at Rosa, N.M.	325,000	52	370,000	1,142,000	629,000
Piedra Creek at Piedra	110,000	57	111,000	337,000	193,000
Los Pinos near Bayfield	160,000*	70	122,000*	304,000*	229,000*
Florida near Durango	40,000	62	34,000	96,000	65,000
Animas at Durango	325,000	63	315,000	745,000	515,000
La Plata at Hesperus	15,000	52	19,000	51,000	29,000
Dolores at Dolores	180,000	60	176,000	477,000	302,000
Colorado near Grand Canyon--Ariz.	5,900,000	58	5,447,000	15,493,000	10,040,000

*Including diversions and storage

SNOW SURVEYS AND IRRIGATION WATER SUPPLY FORECASTS
COLORADO RIVER BASIN

STATUS OF RESERVOIR STORAGE, May 1, 1955

BASIN AND STREAM	RESERVOIR	USABLE CAPACITY (Thous.A. Ft.)	THOUSANDS ACRES FEET IN STORAGE, about May 1, 1955			
			1955	1954	1953	10-year Ave.* 1943-1952
COLORADO DRAINAGE						
Colorado River	Granby	467.5	151.2	360.5	426.0	—*
Taylor River	Taylor Park	106.2	61.6	58.3	63.7	74.7
Los Pinos River	Vallecito	126.3	65.3	45.0	68.3	42.8
Groundhog Creek	Groundhog	21.7	4.0	7.2	12.5	10.2
Blue River	Green Mountain	146.9	51.8	45.8	63.2	54.1
Colorado River	Lake Mead	27935.0	11271.0	15350.0	17503.0	18251.0
Colorado River	Lake Havasu	688.0	672.6	647.9	651.4	656.2
Colorado River	Lake Mohave	1810.0	1766.0	1799.0	1695.0	—*
SALT AND GILA DRAINAGE						
Salt River	Roosevelt	1420.0	341.5	717.3	1007.1	504.1
" "	Horse Mesa	245.0	241.2	236.4	242.5	212.5
" "	Canyon	58.0	56.3	56.9	56.1	48.3
" "	Saguaro	70.0	68.6	54.5	54.1	50.7
Verde River	Bartlett	200.0	55.0	130.8	49.3	82.1
	Horseshoe	67.0	1.3	12.5	1.2	35.6*
Aqua Fria River	Carl Pleasant	173.0	23.4	44.6	74.8	13.5
Gila River	San Carlos	1200.0	0	26.1	8.7	137.2

*Some for shorter periods

COLORADO RIVER DRAINAGE BASIN SUMMARY OF MAY 1 SNOW SURVEYS
AND COMPARISON OF DATA WITH THAT OF PREVIOUS YEARS

May 1, 1955

WATERSHEDS	No of Courses Averaged	Years of Record	May 1, 1955 Water Contents as percent of		
			1954	1953	Average
COLORADO RIVER					
Colorado River*	28	4-19	137	53	51
Roaring Fork	4	9-19	132	60	51
Plateau Creek	2	15-18	156	101	85
Green River	4	18-19	85	68	72
Yampa River	8	4-19	204	76	81
White River	2	19	283	52	54
Gunnison River	13	4-19	167	87	78
Dolores River	4	6-19	--	84	59
San Juan River	5	4-19	186	119	67
Animas River	7	4-19	181	90	67

* Above Glenwood Springs

PRECIPITATION DATA

WATERSHED	STATE	Precipitation* October 1 to April 30	Departure from Normal	Precipitation* April	Departure from Normal
		Inches	Inches	Inches	Inches
Colorado	Colorado	7.87	-3.10	1.03	-0.71
Green	Wyoming	3.77	-2.13	0.39	-0.27
San Juan	New Mexico	3.18	-2.74	0.34	-0.65
Colorado	Arizona				
Gila	New Mexico	2.88	-3.29	.01	-0.50

* Average selected high sltitude stations

COLORADO RIVER SNOW SURVEYS
May 1, 1955

DRAINAGE BASIN and SNOW COURSE	Snow Course Measurements								
			1955			Past Record			
	Number	Elev.	Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.) 1954	1953	Average	Years of Record
COLORADO RIVER									
COLORADO RIVER (Above Glenwood Springs)									
Cameron Pass*	5J1	10300	4/28	44	16.9	17.5	21.8	23.7	19
Park View*	6J2	9200	4/29	7	1.5	0.8	6.6	7.0	19
Phantom Valley	5J4	9300	5/1	0	0.0	0.0	7.3	6.1	19
Hoosier Pass	6K1	11400	4/29	20	5.9	3.0	12.2	11.2	19
Berthoud Pass	5K3	9700	4/29	28	9.3	4.2	12.0	14.5	19
Tennessee Pass	6K2	10200	4/29	0	0.0	0.0	7.4	6.0	19
M.Fork Camp.Gr.	5K4	9000	4/29	0	0.0	0.0	5.6	5.7	19
Fiddler Gulch	6K5	11000	4/30	27	7.7	7.8	NS	15.0	17
Lulu	5J7	10200	5/1	38	11.5	12.2	14.0	19.0	15
Willow Creek P.	6J5	9500	4/29	17	4.2	2.7	8.3	12.6	17
N.Inlet Grand L.	5J9	9000	5/1	0	0.0	0.0	7.6	7.3	17
Lake Irene	5J10	10600	5/1	39	14.6	16.9	23.1	23.9	17
Arrow	5K6	9900	4/29	14	4.6	0.0	5.9	7.2	17
Lapland	5K7	9500	4/30	2	0.8	0.4	9.5	8.5	17
Fremont Pass	6K8	11400	4/28	45	14.2	12.0	17.4	17.7	19
Lynx Pass	6J6	9100	4/29	8	3.0	0.0	5.9	7.9	19
Shrine Pass	6K9	10500	4/28	34	12.2	10.4	19.9	18.3	13
Grizzly Peak	5K9	11250	4/27	30	10.2	12.6	20.7	19.7	13
Glen-Mar Ranch	5K10	8850	4/29	0	0.0	0.0	3.5	5.4	8
Monarch Lake	5J14	8500	4/28	22	6.1	0.0	6.7	4.3	7
Granby	5J16	8700	4/30	0	0.0	0.0	2.2	2.4	6
Grand Lake	5J19	8600	5/1	0	0.0	0.0	3.8	4.0	6
Berthoud Summit	5K14	11300	4/30	45	14.7	12.1	23.7	20.7	4
Frazer View	5K15	10600	4/30	23	8.0	3.3	12.9	11.3	4
Gore Pass	6J11	8900	4/29	20	7.2	0.0	7.5	7.3	4
Frisco	6K13	9300	4/27	0	0.0	0.0	5.6	5.3	4
Snake River	5K16	9700	4/28	0	0.0	0.0	5.5	6.3	4
Summit Ranch	6K14	10000	4/30	11	3.8	0.0	4.0	6.6	4
Vail Pass	6K15	10000	4/28	27	9.8	7.9	12.7		3
Pando	6K19	9500	4/28	14	5.0	0.0	6.4		3
ROARING FORK									
Ind.Pass Tunnel	6K4	10700	4/29	24	7.5	7.6	15.5	16.7	19
North Lost Trail	7K1	9200	4/28	7	2.3	0.0	4.0	9.0	19
Nast	6K6	8700	4/28	0	0.0	0.0	NS	1.3	18
Ivanhoe	6K10	10400	5/2	38	13.2	9.9	18.0	18.0	9
GREEN RIVER									
Dutch Joe	9G5	8700	4/28	5	1.9	0.9	0.6	4.0	18
Mulligan Park	9G1	8900	4/26	20	6.0	8.5	6.5	6.9	19
Kendall R.S.	10F15	7900	4/30	9	3.4	2.2	6.8	6.0	19
Loomis Park	10F16	8500	4/28	35	12.8	17.3	15.1	11.5	19
Snyder Basin R.S.	10F17	8040	4/30	9	2.9	6.5	10.7	8.7	19
Piney-LaBarge	10G10	8820	4/29	26	9.3	7.9	14.7	14.2	19

* On adjacent drainage
NS - No Survey

COLORADO RIVER SNOW SURVEYS
May 1, 1955

Drainage Basin and Snow Course	Number	Elev.	Snow Course Measurements 1955 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
COLORADO RIVER									
YAMPA RIVER									
Dry Lake	6J1	8300	4/29	37	10.0	0.0	17.6	15.4	19
Columbine Lodge*	6J3	9300	4/29	43	19.3	8.7	25.9	20.2	19
Elk River	6J4	8700	5/2	18	8.4	3.7	12.2	12.4	19
Lynx Pass*	6J6	9100	4/29	8	3.0	0.0	5.9	7.9	19
Routt Line	6J8	9700	4/29	85	35.6	12.8	44.2	37.4	4
Rabbit Ears	6J9	9550	4/29	51	23.4	15.6	28.9	26.9	4
Yampa View	6J10	8500	4/29	15	6.3	0.0	11.0	9.0	4
Old Battle*	6H10	9800	4/26	66	26.0	24.2	27.2	33.4	19
WHITE RIVER									
Burro Mountain	7K2	9000	4/29	33	12.5	4.5	14.0	14.4	19
Rio Blanco	7J1	8500	4/29	1	0.5	0.0	11.1	9.6	19
PLATEAU CREEK									
Mesa Lakes	7K4	10000	5/2	35	11.4	5.7	14.2	15.3	18
Trickle Divide	7K5	10000	4/28	72	27.8	19.5	24.5	30.6	15
GUNNISON RIVER									
Crested Butte	6L1	9000	4/28	0	0.0	0.0	10.3	7.0	19
Park Cone	6L2	9700	4/28	4	2.4	0.0	8.9	5.5	18
Alexander Lake	7K3	10000	4/28	60	21.0	14.1	17.1	23.6	18
Ironton Park	7M6	9800	5/2	13	2.5	0.0	7.5	7.7	18
Trickle Divide	7K5	10000	4/28	72	27.8	19.5	24.5	30.6	15
Park Reservoir	7K6	9500	4/29	63	24.4	16.0	20.1	26.1	15
Porphyry Creek	6L3	10800	4/29	33	10.3	4.0	17.9	17.0	15
Kannah Cr.	7K7	10700	5/1	56	22.8	17.9	21.7	24.8	8
Lake City	7M8	10300	4/28	0	0.0	0.0	2.2	2.3	7
Spring Cr. Pass*	6M13	10900	4/29	9	2.5	1.0	4.3	5.8	6
Cochetopa Pass*	6L6	10000	5/1	0	0.0	0.0	0.0	2.0	6
McClure Pass	7K8	9500	4/28	26	9.5	0.0	10.0	8.8	5
Red Mt. Pass	7M15	11000	5/1	74	26.8	17.3	26.5	29.6	4

*On adjacent drainage
NS - No survey

COLORADO RIVER SNOW SURVEYS
May 1, 1955

Drainage Basin and Snow Course	Snow Course Measurements								
			1955			Past Record			
	Number	Elev.	Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.) 1954	1953	Average	Years of Record
COLORADO RIVER									
SAN JUAN RIVER									
Wolf Creek Pass*	6M1	10000	4/28	35	17.5	3.5	10.3	25.7	19
Upper San Juan	6M3	10000	4/28	47	21.8	8.4	21.7	30.4	19
Granite Peaks	7M7	7950	5/1	0	0.0	0.0	0.0	0.6	14
La Plata	7M10	8700	5/1	0	0.0	0.0	0.0	5.3	5
Wolf Creek Summit	6M17	11000	4/28	63	21.3	20.8	19.1	28.4	4
ANIMAS RIVER									
Silverton Sub.S.	7M4	9400	5/1	0	0.0	0.0	0.0	1.0	19
Iroton Park	7M6	9800	5/2	13	2.5	0.0	7.5	7.7	18
Cascade	7M5	8850	5/1	0	0.0	0.0	0.0	2.7	19
Spud Mt.	7M11	10700	5/1	48	17.1	13.0	20.8	23.9	4
Molas Lake	7M12	10500	5/1	0	0.0	0.0	2.4	7.9	4
Howardville	7M13	9800	5/1	7	2.3	0.0	3.6	5.9	4
Mineral Creek	7M14	10300	5/1	23	8.3	0.0	7.6	10.0	4
Red Mt. Pass	7M15	11000	5/1	74	26.8	17.3	26.5	29,6	4
DOLORES RIVER									
Rico	7M1	8700	4/28	0	0.0	0.0	0.0	1.1	18
Telluride	7M2	8600	4/28	0	0.0	0.0	0.0	1.1	19
Lizard Head	7M3	10300	5/1	29	6.7	0.0	9.1	14.3	18
Trout Lake	7M9	9700	5/1	23	7.6	0.0	7.8	7.7	6

*On adjacent drainage
NS - No survey

LIST AND LOCATION OF SNOW COURSES

Platte, Arkansas, Colorado and Rio Grande Drainages

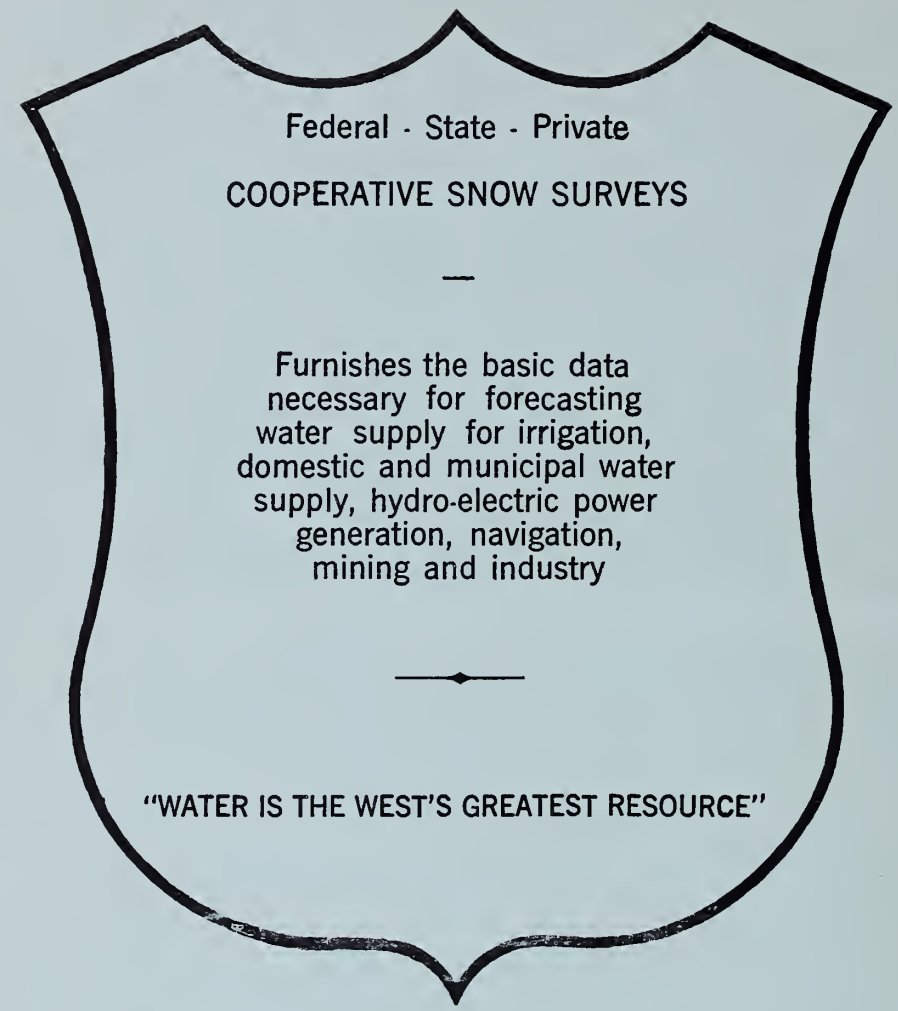
No.		Name	Sec.	Twp.	Rge.	Elev.
		Cheyenne				
1	SD	Upper Spearfish	21	3N	1E	6500
		North Platte				
7	C	Park View	24	5N	78W	9200
8	C	Columbine	21	5N	82W	9300
156	C	Northgate	7	11N	79W	8500
7	W	Bottle Creek	24	14N	85W	8200
8	W	Webber Spring	27	14N	85W	9000
9	W	Old Battle	29	14N	85W	9800
37	W	North French Creek	27	16N	80W	10200
38	W	North Serrett Creek	30	16N	80W	9400
39	W	Ryan Park	34	16N	81W	8400
67	W	Spring Creek	32	15N	85W	9000
68	W	Albany	18	14N	78W	9400
71	W	Pearl	18	12N	82W	8900
		Laramie				
88	C	Roach	5	10N	77W	9800
111	C	McIntyre	35	10N	76W	9100
3	W	Brooklyn Lake	11	16N	78W	10200
11	W	Foxpark	21	13N	78W	9200
35	W	Libby Lodge	29	16N	78W	8700
36	W	Hairpin Turn	24	16N	79W	9500
		Sweetwater				
29	W	Grannier Meadows	19	30N	100W	9000
47	W	South Pass	13	30N	101W	9000
57	W	Larson Creek	12	30N	105W	9000
		Laramie Peaks District				
39	W	La Bonte	11	27N	74W	8450
70	W	Boxelder	31	30N	75W	9000
		South Platte				
1	C	Cameron Pass	2	6N	76W	10300
2	C	Chambers Lake	6	7N	75W	9000
3	C	Big South	33	8N	75W	8600
5	C	East Portal	2	2S	74W	9400
14	C	Hoosier Pass	13	8S	78W	11400
15	C	Fairplay	33	9S	77W	10000
41	C	Wild Basin	24	3N	74W	10000
50	C	Deadman Hill	26	10N	75W	10200
60	C	University Camp	26	1N	73W	10300
61	C	Loveland Pass	27	4S	76W	10600
68	C	Hour Glass Lake	18	7N	73W	9500
83	C	Jefferson Creek	14	7S	76W	10100
95	C	Hidden Valley	23	5N	75W	9550
115	C	Deer Ridge	19	5N	73W	9050
116	C	Copeland Lake	21	3N	73W	8600
117	C	Empire	21	3S	75W	9650
118	C	Geneva Park	18	6S	74W	9750
120	C	Antero	1	13S	77W	9200
128	C	Red Feather	26	10N	74W	9000
133	C	Moffatt	2	2S	74W	9400
134	C	Ward	1	1N	73W	9500
137	C	Berthoud Falls	16	3S	75W	10500
148	C	Longs Peak	32	4N	73W	10500
156	C	Lost Lake	32	8N	75W	9300
34	C	Pole Mountain	35	15N	72W	8700
		Arkansas River				
19	C	Tennessee Pass	21	8S	80W	10200
21	C	Twin Lakes Tunnel	22	11S	82W	10500
72	C	Whiskey Creek		37.2N	105W	10300
74	C	La Veta Pass	22	28S	70W	9300
78	C	Four Mile Park	23	11S	81W	9700
81	C	Blue Lakes	30	31S	69W	10000
92	C	Monarch Pass	16	49N	6E	10500
119	C	Saint Elmo	31	15S	80W	10600
121	C	Timberline	8	9S	81W	11100
165	C	Cooper Hill	2	8S	80W	10600
166	C	East Fork	9	8S	79W	10700
		Upper Colorado				
12	C	Phantom Valley	7	5N	75W	9300
16	C	Berthoud Pass	35	2S	75W	9700
37	C	M. P. Camp Ground	16	3S	77W	9000
44	C	Fiddler Gulch	1	8S	80W	11000
59	C	Lulu	25	6N	76W	10200
64	C	N. Inlet Grand Lake	26	4N	75W	9000
65	C	Lake Irene	8	5N	75W	10600
69	C	Arrow	34	1S	75W	9900
70	C	Lapland	16	2S	76W	9500
79	C	Fremont Pass	2	8S	76W	11400
91	C	Lynx Pass	27	2N	88W	9100
96	C	Shrine Pass	15	6S	79W	10500
97	C	Grizzly Peak	2	5S	76W	11250
102	C	Glen-Mar Ranch	31	2S	77W	8850
106	C	Monarch Lake	30	2N	74W	8500
112	C	Granby	11	2N	77W	8700
127	C	Grand Lake	36	4N	75W	8600
138	C	Berthoud Summit	10	2S	75W	11300
139	C	Frazer View	34	2S	75W	10600
143	C	Gore Pass	2	1N	82W	8900
146	C	Frisco	16	6S	78W	9300
147	C	Snake River	9	5S	76W	9700
158	C	Summit Ranch	8	4S	78W	10000
163	C	Vail Pass	28	5S	79W	10000
167	C	Kokomo	23	7S	79W	10600
168	C	Pando	10	7S	80W	9500
		Roaring Fork				
33	C	Ind. Pass Tunnel	30	11S	82W	10700
54	C	North Lost Trail	20	11S	87W	9200
45	C	Nast	1	9S	83W	8700
100	C	Ivanhoe	12	9S	82W	10400
144	C	Ruby	11	12S	83W	11500
		Yampa				
6	C	Dry Lake	26	7N	84W	8300
9	C	Elk River	21	5N	82W	9600
140	C	Routt Line	13	5N	85W	9700
141	C	Rabbit Ears	30	5N	86W	9550
142	C	Yampa View	21	5N	84W	8500
		White				
35	C	Burro Mountain	15	2S	91W	9000
36	C	Rio Blanco	28	1N	88W	8500
		Plateau Creek				
56	C	Mesa Lakes	35	11S	96W	10000
85	C	Trickle Divide	23	11S	94W	10000
		Gunnison River				
18	C	Crested Butte	22	13S	86W	9000
46	C	Park Cone	19	14S	82W	9700
53	C	Alexander Lake	2	12S	25W	10000
55	C	Snowshoe Mesa	14	13S	89W	7500
58	C	Ironton Park	29	43N	7W	9800
87	C	Park Reservoir	34	11S	94W	9500
89	C	Porphyry Creek	19	49N	8E	10800
101	C	Kannah Creek	5	12S	95W	10700
104	C	Lake City	13	43N	4W	10300
152	C	McClure Pass	1	11S	89W	9500
155	C	Red Mountain	13	42N	8W	11000
		San Juan				
29	C	Upper San Juan	10	37N	1E	10000
30	C	Silverton	10	41N	7W	9400
31	C	Cascade	12	39N	9W	8850
135	C	La Plata	4	36N	11W	9700
149	C	Spud Mountain	32	40N	8W	10700
150	C	Molas Lake	7	40N	7W	10500
151	C	Howardville	15	41N	7W	9800
162	C	Mineral Creek	36	42N	8W	10300

LIST AND LOCATION OF SNOW COURSES (CONTINUED)

No.		Name	Sec.	Twp.	Rge.	Elev.
		Dolores				
23	C	Rico	11	39N	11W	8700
24	C	Telluride	6	42N	8W	8600
25	C	Lizzard Head	24	41N	10W	10300
114	C	Trout Lake	8	41N	9W	9700
		Green				
23	W	Dutch Joe	33	31N	104W	8700
24	W	Mulligan Park	17	35N	108W	8900
25	W	Kendall R. S.	23	38N	110W	7900
26	W	Loomis Park	14	37W	111W	8500
27	W	Snyder Basin	15	29N	114W	8040
28	W	Piney La Barge	19	29N	114W	8820
		Arizona (Gila)				
11	NM	Frisco Divide	21	6S	20W	8000
14	NM	State Line	5	6S	21W	8000
22	NM	Taylor Creek	20	10S	10W	7850
23	NM	Inman	6	11S	10W	7800
1	A	Nutrioso	23	6N	30E	8500
2	A	Beaver Head	13	4N	30E	8000
3	A	Coronado Trail	26	5N	30E	8000
29	A	Rose Canyon	15	12S	16E	7300
30	A	Bear Wallow	6	12S	16E	8100
		Arizona (Salt)				
4	A	McNary	14	8N	23E	7200
5	A	Forest Dale	2	9N	21E	6000
6	A	Milk Ranch	28	8N	23E	7000
20	A	Pacheta				7800
21	A	Fort Apache	18	7N	27E	9000
22	A	Baldy	28	7N	27E	9000
23	A	Maverick Fork	13	6N	27E	9050
31	A	Workman Creek	33	6N	14E	5860
		Arizona (Little Colorado)				
12	A	Fort Valley	22	22N	6E	7350
13	A	Mormon Lake	13	18N	8E	7350
19	A	Mormon Mountain	14	18N	8E	7500
		Arizona (Verde)				
8	A	Camp Wood	3	16N	6W	5700
16	A	Antelope Park	29	19N	8E	7300
17	A	Casner Park	19	18N	8E	6930
18	A	Munds Park	7	18N	7E	6500

No.		Name	Sec.	Twp.	Rge.	Elev.
		Arizona (Williams)				
7	A	Iron Springs	22	14N	3W	6000
15	A	Willow Ranch	16	21N	11W	5000
		Arizona (Lower Colorado)				
9	A	Chalendar	27	22N	3E	7100
10	A	Grand Canyon	21	30N	4E	7500
11	A	Bright Angel	34	33N	4E	8400
		Rio Grande				
26	C	Wolf Creek	4	37N	2E	10000
27	C	Upper Rio Grande	13	40N	4W	9350
47	C	Silver Lakes	15	36N	5E	9600
49	C	River Springs	25	33N	6E	9300
76	C	Summitville	30	37N	4E	11500
77	C	Cumbres Pass	17	32N	5E	10000
80	C	Santa Maria	8	41N	2W	9700
82	C	Culebra		37.2N	105.2W	10000
84	C	Fort Garland	13	29N	72W	8200
108	C	Platoro	22	36N	4W	9950
109	C	West Conejos	25	35N	4E	9450
110	C	La Manga	11	33N	5E	10000
122	C	Pyramid	26	41N	5W	10300
123	C	Spring Creek Pass	2	42N	3W	10900
124	C	Pool Table Mt.	19	41N	2E	10000
125	C	Lake Humphrey	32	40N	1E	9300
126	C	Coohetopa Pass	12	45N	3E	10000
154	C	Porcupine	2	41N	3W	10400
155	C	Wolf Creek Summit	6	37N	2E	11000
1	NM	Red River	29	28N	15E	9500
2	NM	Taos Canyon	10	25N	15E	9000
4	NM	Aspen Grove	12	18N	10E	9100
9	NM	Hematite Park	8	28N	15E	9500
12	NM	Tres Ritos	23	22N	13E	9000
15	NM	Payrole	16	28N	7E	9700
17	NM	Chama Divide		36.9N	106.7W	7750
18	NM	Chamita		36.9N	106.7W	8500
19	NM	Cordova	22	22N	13E	10100
20	NM	Panohuela	27	19N	12E	8300
21	NM	Big Tesuque	17	18N	11E	10000
24	NM	Elk Cabin	8	18N	11E	8250
26	NM	Rio En Medio	8	18N	11E	10400
28	NM	Quemazon	34	20N	5E	9300
29	NM	Bateman	5	26N	6E	9300
31	NM	Fenton Hill	18	19N	3W	8900

SD - South Dakota; C - Colorado; W - Wyoming; A - Arizona; NM - New Mexico


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